

IN THE CLAIMS:

Please amend the paragraphs 0051, 0060, 0078 and 0095 as follows:

[0051] To make the detachable portion A detachable from the main body portion B of the manipulation grip 1, a power supply portion connection connector 3C connected to the battery 3A via a lead wire 3B is provided on the tip face of the lower grip body portion 1B in the detachable portion A. Additionally, on the front end face of the grip end portion 1A in the detachable portion A, provided is a pair of speaker connection connectors 7C connected to the speaker 7A via lead wires 7B. Also provided is one switch connection connector 4C connected to one terminal of a power supply switch 4A of the power supply switch portion 4 via lead wires 7B wires 4B.

[0060] Furthermore, since the power supply switch portion 4 ~~dese-not~~ does not need to be sealed, it is possible to employ as the power supply switch 4A a mechanically selectable switch such as a dipswitch.

[0078] The radiation detector according to the ~~fourth~~ fifth embodiment also allows sterilization to be performed using a sterilizing gas such as EOG, in a state where the sound output portion 7 and the power supply switch portion 4 in the manipulation grip 1 are removed on a detachable portion A basis, and the battery 3A is also removed from the main body portion B of the manipulation grip 1. This makes it possible to prevent damage to the speaker 7A of the sound output portion 7 caused by a negative pressure in the pressure-resistant case.

[0095] According to the radiation detector of the tenth embodiment, it is possible to perform sterilization using a sterilizing gas such as EOG, in ~~s-state~~ a state where that the sound output portion 7 is removed in the manipulation grip 1 by unscrewing a setscrew 9 on a detachable portion A basis from the main body portion B, and the battery cover 1D is also removed from the lower grip body portion 1B of the lead wire 3B by unscrewing the setscrew 10 to take out the battery 3A.

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently amended) A radiation detector with a ~~main body, the main body~~ manipulation grip, comprising

a main body portion including:

a radiation detecting portion having a radiation detection probe disposed at a first end of the manipulation grip for detecting a radiation intensity, and

a liquid crystal display portion being disposed near the first end of the manipulation grip,

a detachable portion with respect to the main body portion, the detachable portion being disposed at a second end of the manipulation grip and including:

a sound output portion having a speaker for outputting a sound according to [[a]] the radiation intensity detected by the radiation detecting portion, and

a power supply portion for supplying power at least to the radiation detecting portion and the sound output portion, ~~wherein the sound output portion is configured to be detachable from the main body.~~

2. (Currently amended) A radiation detector with a ~~main body, the main body~~ manipulation grip, comprising

a main body portion including:

a radiation detecting portion having a radiation detection probe disposed at a first end of the manipulation grip for detecting a radiation intensity, and

a liquid crystal display portion being disposed near the first end of the manipulation grip,

a power supply portion for supplying power at least to the radiation detecting portion, and a detachable portion with respect to the main body portion, the detachable portion being disposed at a second end of the manipulation grip and including:

a power supply switch portion for turning on/off the power supply portion ;
~~wherein the power supply switch portion is configured to be detachable from the~~
~~main body.~~

3. (Currently amended) A radiation detector with a ~~main body, the main body~~ manipulation grip, comprising

a main body portion including:

a radiation detecting portion having a radiation detection probe disposed at a first end of the manipulation grip for detecting a radiation intensity, and

a liquid crystal display portion being disposed near the first end of the manipulation grip,

an integrated component having being detachable with respect to the main body portion,
the integrated component integrally including:

a power supply portion including a battery for supplying power at least to the radiation detecting portion, and

a power supply switch portion for turning on/off the power supply portion ;
~~wherein the integrated component is configured to be detachable from the main~~
~~body.~~

4. (Currently amended) A radiation detector with a ~~main body, the main body~~ manipulation grip, comprising

a main body portion including:

a radiation detecting portion having a radiation detection probe disposed at a first end of the manipulation grip for detecting a radiation intensity, and

a liquid crystal display portion being disposed near the first end of the manipulation grip and outputting an image display of the radiation intensity detected by the radiation detecting portion,

a sound output portion having a speaker for outputting a sound according to a radiation intensity detected by the radiation detecting portion, and

a detachable portion with respect to the main body portion, the detachable portion being disposed at a second end of the manipulation grip and including:

a detection sensitivity variable portion for varying a detection sensitivity of the radiation detecting portion, and

a display variable portion for varying at least one of ~~a sound~~ the sound output portion and ~~an image display of a radiation intensity detected by the radiation detecting portion, wherein the detection sensitivity variable portion and the display variable portion are configured to be detachable from the main body~~ the liquid crystal display portion.

5. (Previously presented) The radiation detector according to Claim 1, wherein the sound output portion includes a connection connector to be detachably connected to a connection connector of the main body, and is configured to be detachable from the main body via the connection connector.
6. (Previously presented) The radiation detector according to Claim 2, wherein the power supply switch portion includes a connection connector to be detachably connected to a connection connector of the main body, and is configured to be detachable from the main body via the connection connector.
7. (Previously presented) The radiation detector according to Claim 3, wherein the integrated component of the power supply portion and the power supply switch portion includes a connection connector to be detachably connected to a connection connector of the main body, and is configured to be detachable from the main body via the connection connector.
8. (Previously presented) The radiation detector according to Claim 4, wherein the detection sensitivity variable portion and the display variable portion includes a connection connector to be detachably connected to a connection connector of the main body, and is configured to be detachable from the main body via the connection connector.
9. (Previously presented) The radiation detector according to Claim 1, wherein the sound output portion is detachably screwed to the main body.
10. (Previously presented) The radiation detector according to Claim 2, wherein the power supply switch portion is detachably screwed to the main body.

11. (Previously presented) The radiation detector according to Claim 3, wherein the integrated component of the power supply portion and the power supply switch portion is detachably screwed to the main body.
12. (Previously presented) The radiation detector according to Claim 4, wherein the detection sensitivity variable portion and the display variable portion are detachably screwed to the main body.
13. (Previously presented) The radiation detector according to Claim 1, wherein the sound output portion includes an engagement portion to detachably engage an engagement portion of the main body, and is configured to be detachable from the main body via the engagement portion.
14. (Previously presented) The radiation detector according to Claim 2, wherein the power supply switch portion includes an engagement portion to detachably engage an engagement portion of the main body, and is configured to be detachable from the main body via the engagement portion.
15. (Previously presented) The radiation detector according to Claim 3, wherein the integrated component of the power supply portion and the power supply switch portion includes an engagement portion to detachably engage an engagement portion of the main body, and is configured to be detachable from the main body via the engagement portion.
16. (Previously presented) The radiation detector according to Claim 4, wherein the detection sensitivity variable portion and the display variable portion includes an engagement portion to detachably engage an engagement portion of the main body, and is configured to be detachable from the main body via the engagement portion.
17. (New) A radiation detector with a manipulation grip, comprising
a main body portion including:
a radiation detecting portion having a radiation detection probe disposed at a first end of the manipulation grip for detecting a radiation intensity,

a detachable portion with respect to the main body portion, the detachable portion being disposed at a second end of the manipulation grip and including at least one of:

a power supply switch portion for turning on/off a power supply portion for supplying power at least to the radiation detecting portion,

a detection sensitivity variable portion for varying a detection sensitivity of the radiation detecting portion, and

a display variable portion for varying at least a sound output portion having a speaker for outputting a sound according to the radiation intensity detected by the radiation detecting portion.

18. (New) The radiation detector according to Claim 17, further comprising:
a liquid crystal display portion being disposed near the first end of the manipulation grip.
19. (New) The radiation detector according to Claim 17, wherein
the detachable portion comprises the power supply portion.
20. (New) The radiation detector according to Claim 17, wherein
the power supply portion comprises a battery that is detachable with respect to the main body and detachable portions.